INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2004/000187

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A. CLASSII Int.C	FICATION OF SUBJECT MATTER 217 B01J19/00, B01D3/32				
According to	International Patent Classification (IPC) or to both nat	tional classification and IPC			
B. FIELDS					
Minimum doc Int.C	cumentation searched (classification system followed b	by classification symbols)			
Jitsuy Kokai	on searched other than minimum documentation to the yo Shinan Koho 1926—1996 Jitsuyo Shinan Koho 1971—2004	Toroku Jitsuyo Shinan Koho Jitsuyo Shinan Toroku Koho	o 1994-2004 o 1996-2004		
Electronic dat WPI	ta base consulted during the international search (name	e of data base and, where practicable, sea	rch terms used)		
C. DOCUM	MENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where app		Relevant to claim No.		
A	JP 49-004136 Y1 (Hitachi, Lt. 31 January, 1974 (31.01.74), Page 1, column 1, line 31 to Fig. 3 (Family: none) JP 8-010502 A (JGC Corp.), 16 January, 1996 (16.01.96), Claims; page 3, Par. No. [000 Par. No. [0016] (Family: none)	column 2, line 15;	1-11		
× Further	Further documents are listed in the continuation of Box C. See patent family annex.				
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search 19 March, 2004 (19.03.04) "T" later document published after the international filing date or priority date and not in conflict with the application but cited understand the principle or theory underlying the invention document of particular relevance; the claimed invention can considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention can considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family Date of mailing of the international search report 13 April, 2004 (13.04.04)		the application but cited to derlying the invention claimed invention cannot be ered to involve an inventive to claimed invention cannot be pwhen the document is h documents, such silled in the art family			
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer			
Facsimile No	Telephone No.				

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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 30812/1985(Laid-open No. 147102/1986) (Mitsui Engineering & Shipbuilding Co., Ltd.), 10 September, 1986 (10.09.86), Claims; page 3, line 17 to page 5, line 15 (Family: none)	1-11
A	Microfilm of the specification and drawings annexed to the request of Japanese Utility Model Application No. 49962/1983(Laid-open No. 154301/1984) (Mitsui Engineering & Shipbuilding Co., Ltd.), 16 October, 1984 (16.10.84), Claims; page 5, line 1 to page 6, line 2 (Family: none)	1-11
A	US 2001/0030120 A1 (MITSUMOTO et al.), 18 October, 2001 (18.10.01), Full text & JP 2001-293301 A	1-11
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